

ABSTRACT OF THE DISCLOSURE

Exemplary embodiments are directed to providing a method of preparing an anatomical vessel contained within a tissue bundle for ligation, including positioning a cannula adjacent to the tissue bundle, wherein the positioning is non-penetrating, the cannula including a first extendable member, a second extendable member, a Doppler wand, and a distal end, transmitting ultrasound signals toward the vessel through the tissue bundle with the Doppler wand, receiving ultrasound signals reflected by the vessel through the tissue bundle with the Doppler wand, invaginating the tissue bundle with the first extendable member on a first side of the tissue bundle, invaginating the tissue bundle with the second extendable member on a second side of the bundle opposite the first side, and interpenetrating a length of ligation material between the first and second extendable members on a side of the vessel opposite the cannula distal end.